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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/516,302

12/09/2004

Hitoshi Yoshimori

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04/05/2006

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EXAMINER

MAI, ANH T

ART UNIT

PAPER NUMBER

2832

DATE MAILED: 04/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/516,302

**Applicant(s)**

YOSHIMORI, HITOSHI

**Examiner**

Anh T. Mai

**Art Unit**

2832

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>9/04</u> . | 6) <input type="checkbox"/> Other: ____.  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Bedil [3160838].

Bedil discloses an air-core coil comprising:

- unit coil portions A1, B1, A2, B2 each having at least one conductor wound into a spiral form ;
- the unit coil portions being arranged repeatedly axially of the coil;
- each of the unit coil portions comprising a plurality of unit turn portions 1, 2, 3... which are different from each other in inner peripheral length;
- the unit turn portions of small inner peripheral being at least partly forced inwardly of the unit turn portions of great inner peripheral length [coil turn 2 is smaller than coil turn 1 in peripheral length];
- the plurality of unit turn portions providing each of the unit coil portions are sequentially wound from the outer peripheral side to the inner peripheral side [from 1 to 10];
- one unit turn portion of the inner most periphery being connected to another unit turn on an innermost periphery F of the adjacent unit coil;

- whereby each of the unit coil portions is made at least partly multi-layered.

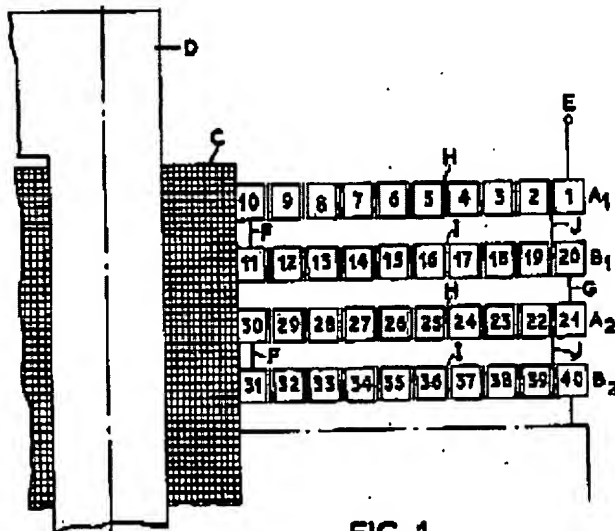


FIG. 1

Referring to FIG. 1 or the drawings, the high-voltage winding of the transformer comprises a number of coils, the first coil consisting of a pair of pancake sections  $A_1$ ,  $B_1$ , the second coil having a pair of sections  $A_2$ ,  $B_2$ , and so on. Each coil is wound as an insulated strip conductor surrounding the low-voltage winding C and its surrounding insulation, the low-voltage winding in turn surrounding a limb of the transformer core D.

Successive turns of the inward-spiralling conductor of section  $A_1$  are indicated at 1, 2, 3 . . . 10, the outermost turn 1 being directly connected to the high-potential terminal E of the transformer. The second section  $B_1$  is similar to section  $A_1$ , but the conductor spirals outwards, successive turns being indicated at 11, 12, 13 . . . 20. The innermost turn 10 of section  $A_1$  is connected to the innermost turn 11 of section  $B_1$  by connection F, and the outermost turn 20 of section  $B_1$  is connected to the outermost turn 21 of the adjacent section  $A_2$  by connection G. It will be understood that one or both of connections F and/or G may consist of the uninterrupted current-carrying conductor itself.

With respect to claims 3-4, Bedil discloses the air-core coil fitted around a core D [figure 1, col 1, lines 49-69].

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With respect to claims 6-8, the claim is method counterpart of structure claims 1-5, the methods steps therefore inherent for manufacturing a coil comprising windings being wound in the multilayer fashion.

*Conclusion*

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 Form.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh T. Mai whose telephone number is 571-272-1995. The examiner can normally be reached on 5/4/9 Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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ANH MAI  
PRIMARY EXAMINER